ASARCO

Tacoma Plant

February 23, 1987

L.W. Lindquist Manager

T.C. White General Superintendent

R.D. Gallagher Accounting Manager

Mr. R. F. White U. S. EPA, Region 10 M/S 532 1200 Sixth Avenue Seattle, WA. 98101

Dear Rick:

The asbestos survey described in your letter of February 5, 1987, has been completed, and a report has been submitted to me from Haz-Con, Inc. documenting the results. The results of this survey are attached. Results are expressed in percent chrysotile, amosite (asbestos fiber types) or "other", meaning non-asbestos material. Below is a list of additional locations or materials in which asbestos was found during the survey. Locations or materials not on the list but tested positive for asbestos have already been previously identified, and have either been removed, or are in the process of being removed.

A. Cottrell Area

1. Pipe Treater Building

- a. Inside on 2nd Floor Mud on I-beam Reference: Sample #8
- b. Top of building, directly underneath metal roof Reference: Sample #61
- c. Thin layer of tar on outside of bricks Reference: Sample #7

2. No. 1 Plate Building

- a. Directly underneath metal siding, east and west side Reference: Sample #49, 50, 51
- b. Thin layer of tar on outside of bricks Reference: Sample #45
- e c. Tar felt material on roof of building



3. No. 2 Plate Building

- a. Top Floor Above middle two rows of elevated treaters Material between insulators
- b. Top Floor Above middle two rows of elevated treaters Millboard pieces resting on treaters
- c. Thin layer of tar on outside of bricks Reference: Sample #40
- d. Tar felt material on roof of building

4. Powerhouse

a. Tar felt material on roof of building Reference: Sample #53

B. Arsenic Plant Area

1. Metallic Arsenic Plant

a. Insulation on beam above process area Reference: SampLe #39

2. Godfrey Roasting Area

a. Oil and steam pipe lines on east side of three roasters Reference: Sample #63, 64

3. No. 1 Flue

a. Thin layer of tar on outside of bricks Reference: Sample #60

4. No. 2 Flue

- a. Thin layer of tar on outside of bricks Reference: Sample #35, 36
- b. Above flue Far east end Small amount of wrap on outside of pipe Reference: Sample #63, 64

All asbestos materials that were identified in the above list will be removed in accordance with procedures described in the Site Stabilization Plan, Section II.C. Exceptions to this are materials identified as "tar on outside of bricks" and "tar felt paper on roof". Procedures for removing these materials will be described in separate documents which will be submitted to your attention.

Curtis E. Dungey

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Senior Environmental Scientist



Firm: POBERTS ENVIRONMENTAL	Location: ASARCO
Sampled by:	Date: 1-24-87
Analyzed by: MARIA K. MAJAR.	1)+ Date: (rec.d) 1.27.87
- 107 67	Checked:

Lob Comple		Somple location	Sample Material Beautistics	Approximate % Fiber Type			
Lab Sa #	Sample #	Sample location	Source*	Material Description	chryso	Amosite	Other
161.1	A01	Steam & oil piping through middle Pipe tota bldg		GRAY CAEDBOARD MATRIX W/ VISIBLE CURLY FIBERS	30%		
161. 2	A .	cloth over insulation; same location as AOI		GANGE I. HE MATERIAL, BRIADED FIBERS TO MAKE A WOVEN MATERIAL			COTTON FIBERS
161.3	A03	Pip treater; material inside on north face bldg		MATERIAL BRAYISH WATRIX W/ VISIBLE STRAIGHT FIBERS		40%	
161.4	A04	Pipe treater North face, 3rd floor	•	GRAYISH, HARD MATRIX TWO VISIBLE FIBERS CURLY AND STRAIGHT			CEINLOSE GLASS FIBERS
161.5	A05	Pipe treater North face; 3rd floor		BLACK TAR HATRIX NITH VISIBLE FIBERS WOVEN IN the MATRIX	15%		

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Firm: NOBERTS ENVIRONMENTAL	Location: ASARCO
Sampled by:	Date: <u>12487</u>
Analyzed by: MARIA & MAYAR 1/+	Date: (rec.d) 1 2787
Date complete: 12787	Checked:

Lab Sample		Sample legation	Sample		Approximate % Fiber Type		
Lab Samp			Source*	Material Description	Chryso tile	Amosite	Other
161.6	A06	Pipe treater; north face, 3rd floor		Blackish-GRAY MATRIX W/VISIBLE CURLY FIBERS HOTEL IN THE MATRIX	25		
161.7	A07	Pipe treater and floor		GRAY OUTER LAYER AND BLACK INNER LAYER N/VIS. BLE CURLY FIBERS	15		-
161.8	A08	Pipe treater 2nd Floor - mud on I - Beam		GRAYISH MATRIX WITH VISIBLE FIBERS	5%		
161.9	A09	Pipe treater - 2nd Floor; felt material on door		RED, Black, AND A YEllowish FIGERS Making up the entire materal			CEILVIOSE
[61.10	A10	Pipe treater - 2nd Floor - outside north face	tuger	GRAY MUD COVERING A ONE SPUN FIBERS. VISIBLE CURLY FIBERS INGRAY MUD; SPEN FIBERS	5%		GLASS FIRENS Spun MATERIAL

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**Asbestos fibers

HA		INC.
HEALTH H	HAZARD CONTROL	L SERVICEȘ

Firm: Roberts Environmental	Location: Asarco	
Sampled by:	Date:1/24/87	
Analyzed by: Maria K. Majar, IH	Date: (rec.d)	

Date complete: 1/27/87 Checked: 4 Approximate % Fiber Type

Lab Sample		Sample	Material Description	Approximate % Fiber Type			
#	#	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
161.11	11	#1 pipe treater outdoors, 2nd floor NW face		Dull grey matrix with visible fibers, curly fib woven into the matrix. Gibers make up most of the	lass	×	Glass fibers
161.12	12	н н н		White hard but breakable matrix with visible fiber	5–10		
161.13	13	Walkway roof between #1 pipe treater and plate treater (mud with chicken wire) pieces of amterial falling dow	n	Grey soft matrix with visible curly fibers	50		
161.14	14	17 17 17 17		Dirty grey matrix with curly fibers	40–50		
161.15	15	#1 plate treater inside rows of "hoppers" (mud over chicken wire)	f ,	White matrix with black glass blebs and straight visible fibers			Glass Fibers

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**Asbestos fibers

HAZED INC. HEALTH HAZARD CONTROL SERVICES

Firm: Koderts Environmental	Location: Asarco
Sampled by:	Date: <u>1/24/87</u>
Analyzed by: Maria K. Majar, IH	Date: (rec.d)1/27/87

Date complete: 1/27/87 Checked: Waru

Lab Sample		Sample location	Sample	Motorial Description	Approximate % Fiber Type		
#	#	Cample location	Source*	Material Description	Chryso tile	Amosite	Other
161.16	18	#1 Exit flue		White plaster no visible fiber			Plaster
		-					
161.17	19	SW Ground floor #! pipe treate	r.	Greyish matrix with visib fibers (Cable wrap)	le	·	Glass Fibers Cellulsoe
1/25/8	7	Neil Callahan: (RUSH)					
	16	Boiler room connected to #1		CT			Wood Fiber
	17	" " " " " 2nd layer		CT	·	·	Wood Fibers

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**Asbestos fibers



irm:	Roberts	Environmental	Location:	Tacoma/ Asar

Sampled by: Terry Lee Barksdale Date: 1/29/87

Analyzed by: Maria K. Majar, IH Date: (rec.d) _1/30/87

Sample Data Sheet Date complete: 1/30/87 Checked: 4#W

Lab Sample		Sample location	Sample	Material Departmen	Approximate % Fiber Type		
#	#	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
164.1	61	Top of plate treater #1 direct under roof, very top of building	.1y	brown chalky clay like material with visible curly fibers	30		-
164.2	62	Roof of treater ovens treater #2 top floor.		White chalky board	30		
	63,64	oild Steam lines east side of Godfley roasters in Arsenic Plant	·		yes		
		·					
	·						

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**Asbestos fibers



Firm: Asarco	Location: Asarco
Sampled by: Mike Krause CIH	Date:2-2-87
Analyzed by: Maria K, Majar , IH	Date: (rec.d)
Date complete: 2-2-87	Date: (rec.d)

Lab #	Comple	Sample location	Sample	Name del Presentation	Approximate % Fiber Type		
	Sample #		Source*	Material Description	Chryso	Amosite	Other
167.6	27	Eastside arsenic storage bin. Tar on roof paper on overhang.		Black tar paper with visible fibers			Cellulose
167.7	26	Eastside arsenic storage bin. Tar paper offroof overhang.		Black tar paper with visible brown fibers		·	Cellulose
167.8	25	Southside arsenic storage bin Tar paper on roof over walkway		Black tar paper with upper layer of gravel, lower layer tar paper			Cellulose
167.9	24	Southside of arsenic storage bin. Tar bottom edge of ply-wood wall.	!	with visible fiber Black tar paper, with visible fibers			Cellulose

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**Asbestos fibers



Firm: Asarco	Location: Asarco
	Date: _2_2_87
Analyzed by: Maria K. Majar, IH	Date: (rec.d)
Data complete: 2.2.87	Charles MARIA

	Commis	Sample Sample location	Sample Material Description	Аррі	Approximate % Fiber Type		
Lab #	Sample #	Sample location	Source* Material Description		Chryso tile	Amosite	Other
167.1	28-1st Layer	NW corner arsenic storage roof overhang. Tar and roof -ing paper layered.		Black tar paper brown visible fibers			Cellulose
167.2	28-2nd Layer	NW corner arsenic storage bin roof overhang. Tar and roofing paper layered.		Black tar paper brown visible fibers	-		Cellulose
167.3	28-3rd Layer	NW corner arsenic storage roof overhang. Tar and roofing paper layered.		Black tar paper brown visible fibers		-	Cellulose
167.4	28-4th Layer	NW corner arsenic storage roof overhang. Tar and roofing paper layered.		Black tar paper with visible white and brown fibers			Cellulose
167.5	29	Westside, tar paper from Demo. Floor orig, from under plywood floor.		Black tar paper			Cellulose

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**Asbestos fibers



Firm: Roberts Environmental	Location: Asarco
Sampled by:	Date:
Analyzed by: Maria K. Majar, IH	Date: (rec.d) 1/31/87
Date complete: 2/4/87	Checked: WHUN

l ob	Commis	Comple leastion	Sample	Hatarial Bassinian	Approximate % Fiber Type		
Lab #	Sample #	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
169.1	20	SW Ground floor #1 pipe treater (Cable wrap)	r	Black tar covering a cove mat with visible fibers	n	. ~	CEllulose
169.2	21	Rear of change house, tar paper		Black tar paper with visible fibers	-		Cellulose
169.3	22	Same location as 21 mud over glass elbows and joints		Dull white hard matrix with visible straight fibers			Glass fibers
169.4	23	Same as location 21		Loose brown matrix with wood clumps and visible fibers			Glass Fibers Wood Fibers
		·				·	•

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Firm: Asarco	Location: Tacoma/ Asarco
Sampled by:Terry Lee Barksdale	Date: 2/5/87
Analyzed by: Maria K. Majar, IH	Date: (rec.d) 2/5/87

Date complete: 2/5/87 Checked: 14411

Lab	Sample	Sample location	Sample	Material Description	Approximate % Fiber Type		
#	#	Campic recution	Source*	waterial Description	Chryso tile	** Amosite	Other
180.6	30	East side #2 treater Bldg.		Paint from building			No visible fibers
180.7	31	#2 treater		White grey matrix with visible fibers	30		
180.8	32	Pipe treater #1 inner roof of gas burner (Sample from Hanson)		White grey matrix with Visible Fibers			
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**Asbestos fibers



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Firm: Roberts Environmental	Location: Asarco
Sampled by: Terry Lee Barksdale	Date: 2/2/87
Analyzed by: Maria K. Majar, IH	Date: (rec.d)
Date complete: 2/6/87	Checked: NATIM

	Comple leastion	Sample Material D	Afotonial Description	Approximate % Fiber Type			
Lab #	Sample #	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
178.1	33	Roof of treater #2 small roof directly below flue exit #2 3rd story		Brick material with visible fibers			Glass Fibers
178.2	34	Same as 33		Black tar with visible Fibers			Glass Fibers Cellulose
178.3	41	1st floor room below exit five #2 facing on oven brick		Redish this "1/8" brick like material with no visible fibers			
178.4	42	Yellow flue below exit flue #2 plate treator #2 gasket around flue		Brick like material with visible fiber; spun glass		-	Glass Fibers

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HEALTH	HAZARD	CONTI	≀OL	SERVICES

Sample	Data	Sheet	

Firm: Asarco	Location: Asarco
Sampled by: Terry Lee Barksdale	Date: 2/6/87
Analyzed by: Maria K. Majar, IH	Date: (rec.d) 2/6/87
Date complete: 2/6/87	Checked: WHM.

Lab	Sample	Sample location	Sample	Motorial Departmen	Approximate % Fiber Type		
#	Sample #	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
179.1	35	West wall #2 flue		Black tar with visible fibers	10–15		Cellulose
179.2	36	Roof of flues (1 & 2)		Black tar with visible fibers inbedded in tar	20		-
179.3	37	Tar from top of flue arches roofed section clues		Black tar with very few fibers			Glass Fibers
179.4	38	Same as location 37	·	Concrete mortar grey mortar with no visible fibers			

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**Asbestos fibers



Firm: Asarco	Location: Asarco/Tacoma
Sampled by: Terry Lee Barksdale	Date: 2/6/87
Maria K. Majar, TH	Date: (rec.d) 2/6/87
	Date: (rec.d) 2/6/87

Date complete: 2/6/87 Checked: What

Lab Sam	Sample	mple Sample location	Sample Material Description	Approximate % Fiber Type			
#	#	Cample location	Source*	Material Description	Chryso tile	Amosite	Other
180.1	39	Metallic Arsenic Ana Insulation on Beam		Black paper covering with a grey white matrix with visible fibers			Glass Fibers
180.2	40	Plate treater #2 flue exit wall		Black tar with fibers inbedded in the tar	10–15		
180.3	62	Plate treater #2 oven door top floor.		Orange yellow matrix with visible fibers			Glass Fibers
180.5	44	Treater #2 top of ovens between oven walls and top of oven		Mortar material		-	No visible fibers
							-

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**Asbestos fibers



Firm: Asarco		Location: Asarco	
Sampled by: _	Terry Lee Barksdale	Date: 2/9/87	
Analyzed hy:	Maria K. Majar, IH	Date: (rec.d) 2/9/87	

Date complete: 2/10/87 Checked: WHW

Lab Sample		Sample location	Sample		Approximate % Fiber Type		
#	#	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
183.1	45	Westside plate treater #1 30ft up wall	•	Tar with a green coating with visible fibers	. 5		·
183.2	41	Smaller yellow flue below exit flue #2		Material from flue gasket Grey white matrix with visible fibers			Glass Fibers
183.3	46	#1 plate treater #1, bottom of treater next to sample #15		Three different samples: 1. Dull greyish matrix 2. Paint like material 3. White hard matrix	10 10	·	Glass Fibers Glass Fibers Glass Fibers
183.4	47	#1 plate treater top floor east wall from floor		Black tar with wood Wood clumps			Wood Fibers
183.5	48	Same location as 47		Wood matrix with cell- ulose and wood fibers			Wood Fibers Cellulose

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**Asbestos fibers



Firm: Asarco)	Location: Asar	co/T <u>acoma</u>
Sampled by: .	Terry Lee Barksdlae	Date:	2/9/87
•	Maria K. Majar, IH	Date: (rec.d)	2/9/87

Date complete: 2/10/87 Checked: WHW

Lab	Sample		Sample Material Description	Appr	Approximate % Fiber Type		
#	#	Sample location	Source*	Material Description	Chryso tile	Amosite	Other
183.6	49	Wall siding #1 plate treater east wall behind metal siding		White powder matrix with visible fibers	· ·	40	
183.7	50	Same location as 49 and 51 2nd layer beneath chicken wire.		Grey dull matrix with visible fibers	15 .		
183.8	51	Same location as 49 12ft. from bottom of building outer layer under metal siding		Dull grey matrix with visible fibers	20		
	·						

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**Asbestos fibers



Firm: Asa	rco	·	Location:	Asarco/Tacoma	•
Sampled b	Y: Terry Lee	Barksdale	Dat	te: 2/10/87	

Analyzed by: Maria K. Majar, IH Date: (rec.d) __2/11/87_

Date complete: 2/11/87 Checked: 4

lah Campia	Comple	Comple Inselien	Sample	arce* Material Description	Аррі	% Fiber Type	
Lab #	Sample #	Sample location	Source*		Chryso tile	** Amosite	Other
187.1	52	Small cinder block building next to Arsenic storage around duct		off white board with visible fibers			Cellulose
187.2	53	Roof of electrical b uilding Powerhouse		Tar - with visible fibers inbedded in the tar	: 15–20		
187.3	54	Powerhouse Electrical building, electrical panel	1	Visible fibers in a black matrix			Cellulose
187.4	55	Electrical Bldg., electrical panel		Cloth with black tar like material covering it			Cellulose
187.5	56	Powerhouse Electrical Bldg., electrical panel		Wire insulation			Cellulose

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**Asbestos fibers



Asarco Firm:

2/11/87

Location:

Asarco/Tacoma

Sampled by: Terry Lee Barksdale

Date: $\frac{2}{10}/87$

Analyzed by:

Maria K. Majar, IH

Date: (rec.d)

2/11/87

Sample Data Sheet

Date complete:

Checked: 144

Lab Sample	Sample location	Sample		Approximate % Fiber Type			
#	#	Cample location	Source*	material Description	Chryso tile	Amosite	Other
187.6	57	Northside of #2 flue insulatio around pipe	n -	Insulation around pipe aircell	15		Cellulsoe
187.7	58	Southside #2 flue (pipe run along eastside arsenic storage bldg.)	<u>-</u>	Insulation around pipe, white powder with visible fibers			Cellulose
187.8	59	Roaster area cloth skirt around roaster		Cloth skirt		·	Glass Fibers
187.9	60	#1 flue east arsenic kitchen		Patch tar	5–10		

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